

## Westinghouse/CB&amp;I Stone &amp; Webster – Proprietary &amp; Confidential



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New Plants and Major Projects  
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Our Reference: VSP\_VSG\_003749

VIA: E-Mail

October 14, 2015

**Subject:** Monthly Meeting Minutes – September 17, 2015

**Reference:** Engineering, Procurement, and Construction Agreement for AP1000® Nuclear Power Plants, Dated May 23, 2008 – V.C. Summer Units 2 and 3, as Amended (“Agreement”)

**Attachment:** September 2015 Monthly Status Meeting Minutes

**Action:** No Action Required, For Information Only

Dear Mr. Jones:

In accordance with the referenced Agreement, Section 3.5, paragraph (f)(ii) “Attendance and Participation,” please find the final minutes for the subject meeting.

If you have any questions or comments to the attached, please contact Jason Brown at (803) 575-3408, or the undersigned.

Sincerely,

Carl D. Churchman  
VP and Consortium Project Director  
Westinghouse Electric Company LLC

JAB/CDC/cef

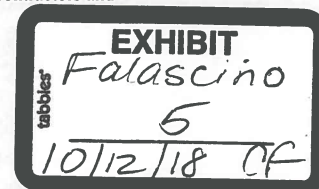
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 John Taylor – SCE&G  
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 Adam Hoey – SCE&G  
 Kyle Young – SCE&G  
 Michele Stephens – SCE&G  
 Andy Barbee – SCE&G  
 Mark Cannon – SCE&G  
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**V.C. Summer 2 & 3 Project Monthly Review Meeting****Date: September 17, 2015****Location: New Nuclear Office Building, CR 201, Jenkinsville, SC**

The monthly status meeting was convened at the New Nuclear Office Building, Conference Room 201, in Jenkinsville, South Carolina. The following are the minutes of that meeting. Present were representatives of SCANA, Santee Cooper, Westinghouse, and CB&I. The agenda and the list of participants are included in Exhibits 1 and 2. See Exhibit 3 for the presentations from the meeting.

**I. General Session / Special Topics****1) Introductory Comments/Topics [slides 2-15]**

All new guests and visitors were introduced and added to the attendance roster (see Exhibit 2). A nuclear safety message was presented covering the INPO Trait "Respectful Work Environment" – focusing on High Level of Trust as a Key Attribute.

The overdue action items were reviewed. There were a total of 44 actions discussed. In addition, 44 actions are awaiting final approval to close and another 16 items are open but not late. All updates will be entered into the action item database. There was discussion on the need to produce crisp and concise updates for open items. It was noted actions should be addressed outside of the meeting and the purpose of any discussion during the meeting should be to provide a brief update for those items that remain open. The expectation is all actions will be closed prior to their commitment date. That includes timely acceptance by the action approver.

- **New Action:** Improvements are needed to the Action Item process. Descriptions should be precise, updates should be provided outside of the PRM meeting, updates should be re-forecasted before due dates are reached and actions should be closed in a timely manner.
  - Deliverable: Report-out at October PRM to communicate process improvements.
  - Owner: Carl Churchman, Approver: Ron Jones
  - Due: 10/15/2015

The High Level Focus Areas (HLFAs) were presented with an emphasis on those which were updated since the last PRM (see Exhibit 3, slides 6-15). It was noted that not all HLFAs had a CAPAL or CAR # listed, as is the expectation.

- **New Action:** Each High Level Focus Area (HLFA) should have a CAR or CAPAL assigned to track activity and improvement actions. Work with each HLFA owner to initiate a CAR or CAPAL.
  - Deliverable: Updated PRM package listing all new CARs/CAPALs.
  - Owner: Jason Brown, Approver: Larry Cunningham
  - Due: 10/15/2015

**2) Industrial Safety Performance (Bill Wood) [slides 16-22]**

Project metrics were presented covering first aid incidents and recordable injuries, as well as trending of near misses relative to first aids. With only one monthly recordable, the 12-month rolling incident rate decreased for the second straight month, from 0.86 to 0.83. For the calendar year 2015, the rolling incident rate decreased for 5 of 7 months.

**3) Quality Assurance Program Brief (David Jantosik / David Hunt) [slides 23-32]**

The Quality Assurance presentation was a Consortium presentation – looking at the key issues coming out of the site Health Report Process: (a) Preventative Maintenance; (b) Product Quality; and (c) Corrective Action Program implementation. Additional monitoring issues were also discussed.

These minutes are provided in accordance with Section 3.5(f)(ii) of the EPC Agreement.



## V.C. Summer Project Monthly Review Meeting – September 17, 2015

- **New Action:** Schedule a meeting with the Owner to discuss findings, gaps, and actions from the recently conducted Vendor Summit.
  - Deliverable: Report-out at October PRM.
  - Owner: Mike Annacone, Approver: Alan Torres
  - Due: 10/15/2015
- 4) **Corrective Action Program Improvements (Jim Comer) [slides 33-35]**  
An update of the Leadership Improvement Plan was presented, focusing on the key INPO Traits of a Healthy Nuclear Safety Culture. A Nuclear Safety Culture pulse survey is scheduled for the end of September.
- 5) **Special Topic: Test Program Status (Tim Messersmith) [slides 37-38]**  
It was noted a full presentation will be delivered during the October PRM, including collaboration between the Consortium and the Owner.
- 6) **Special Topic: Status of Unit 3 Modules (Dale Garrison) [slide 39]**  
Slides were not included in the original package release but will be included in the formal transmittal of these meeting notes. The status of module fabrication and delivery was discussed, including challenges to delivery dates.
  - **New Action:** Provide the mitigation plan and schedule improvements, including the identification for all requirements, for Toshiba and IHI production of CA01 submodules.
    - Deliverable: Plan and schedule fragnet.
    - Owner: Dale Garrison, Approver: Alan Torres
    - Due: 10/15/2015

**II. Construction Priorities and Milestones**

- 1) **Review of Unit 2 Project Milestone Schedule [slides 40-41]**  
A high-level schedule overview and a listing of major project milestones were presented for Unit 2 completion.
- 2) **Unit 2 Nuclear Island Shield Building [slides 42-57]**  
Recent accomplishments; Layer F1 (Q to 7.3 Outside) concrete was placed, vertical seam weld NDE was completed on the West Side of Course 1 panels, and panel fit up on the fabrication pad for Courses 2 thru 5 has been completed. Upcoming activities were discussed, including CA20 work.
- 3) **Unit 2 Nuclear Island Inside Containment [slides 58-72]**  
Recent accomplishments; the lift and set of Modules CB11, CB12, CB21, CB24, and CB25 into Containment. Layer 5 concrete placement and fabrication of CA02 and CA03 were discussed as near-term activities supporting construction inside containment.
- 4) **Nuclear Island Annex Building [slides 73-90]**  
Challenges with CA22 were discussed as a contributing factor to the delay in completing the East side backfill and subsequent placement of the Annex Building basemat. In the look-ahead section, the Main Steam and Feedwater Penetration activities were discussed.
  - **New Action:** Conduct an Engineering review (extent of condition) to address any issues with couplers, splice plates, or FOAK experiences on the site.
    - Deliverable: Report out at November PRM.
    - Owner: John Robinson / Adam Scheider, Approver: Carl Churchman
    - Due: 11/19/2015

These minutes are provided in accordance with Section 3.5(f)(ii) of the EPC Agreement.



**5) Turbine Building [slides 92-106]**

Recent accomplishments; placement of the 1<sup>st</sup> and 2<sup>nd</sup> bay basemat. The focus of the presentation was related to the placement of the turbine/generator pedestal.

**6) Licensed Operators for Unit 2 Fuel Load [slides 107-114]**

A high-level schedule overview and listing of major project milestones was presented. A heightened importance was placed on the need to release Baseline 8 in a timely manner.

- New Action: The effort of Licensed Operators continues to be a challenge and achieving alignment between Westinghouse, SCANA, and SNC is crucial. Identify the gaps in alignment and production.
  - Deliverable: Report-out at October PRM, including the gaps and mitigation plans – highlighting areas needing management attention.
  - Owner: Paul Mothena, Approver: Carl Churchman
  - Due: 10/15/2015.

**7) Review of Unit 3 Project Milestone Schedule [slides 115-116]**

A high-level schedule overview and a listing of major project milestones were presented for Unit 3 completion.

**8) Unit 3 Highlights / Look Ahead [slides 117-125]**

Recent accomplishments; completed lift/set of CB65 in Containment, completed Layer C placement, completed placement of Q/11 Line wall 82'6" to 100', and completed placement of Area 2 concrete beam. A summary of each of the four major construction paths was reviewed for Unit 3.

- 1) Nuclear Island Shield Building
- 2) Nuclear Island Inside Containment
- 3) Auxiliary Building Construction
- 4) Turbine Building Construction

- New Action: For Unit 3, measurements of performance improvements compared to Unit 2 have not been presented in the PRM. Develop metrics for Construction performance improvements, showing implementation of Lessons Learned from Unit 2.
  - Deliverable: Construction performance improvement metrics
  - Owner: Rod Cavalieri / Joe Frisco, Approver: Carl Churchman
  - Due: 10/15/2015.

**III. Metrics Review [slides 116-154]**

The metrics are provided in the slides contained in Exhibit 3. Metrics for I&C activities was added this month – thresholds for the metrics need to be developed.

- New Action: In the first Quarter of 2015, Westinghouse Engineering went through an Engineering Completion effort for the standard plant design, ending on April 30<sup>th</sup>. The Client would like to see a metric or summary of the design changes generated since April 30<sup>th</sup> to quantify the reduction in design changes. Is it what we expected? Similar to the China design completion effort?
  - Deliverable: Metric/summary of the design changes post-4/30
  - Owner: Pat Young, Approver: Kyle Young
  - Due: 10/15/2015.

These minutes are provided in accordance with Section 3.5(f)(ii) of the EPC Agreement.

## V.C. Summer Project Monthly Review Meeting – September 17, 2015

**IV. Conclusion****1) New Action Items**

The following new action items were entered into the Action Tracking System.

New Action	Owner	Verifier	Due Date
Improvements are needed to the Action Item process. Descriptions should be precise, updates should be provided outside of the PRM meeting, updates should be re-forecasted before due dates are reached, and actions should be closed in a timely manner.  Deliverable: Report-out at October PRM to communicate process improvements.	C. Churchman	R. Jones	10/15/2015
Each High Level Focus Area (HLFA) should have a CAR or CAPAL assigned to track activity and improvement actions. Work with each HLFA owner to initiate a CAR or CAPAL.  Deliverable: Updated PRM package listing all new CARs/CAPALs	J. Brown	L. Cunningham	10/15/2015
Schedule a meeting with the Owner to discuss findings, gaps, and actions from the recently conducted Vendor Summit.  Deliverable: Report-out at October PRM	M. Annacone	A. Torres	10/15/2015
Provide the mitigation plan and schedule improvements, including the identification for all requirements, for Toshiba and IHI production of CA01 submodules.  Deliverable: Plan and schedule fragnet	D. Garrison	A. Torres	10/15/2015
Conduct an Engineering review (extent of condition) to address any issues with couplers, splice plates, or FOAK experiences on the site.  Deliverable: Report out at November PRM	J. Robinson / A. Scheider	C. Churchman	11/19/2015
The effort of Licensed Operators continues to be a challenge and achieving alignment between Westinghouse, SCANA, and SNC is crucial. Identify the gaps in alignment and production.  Deliverable: Report-out at October PRM, including the gaps and mitigation plans – highlighting areas needing management attention	P. Mothena	C. Churchman	10/15/2015

These minutes are provided in accordance with Section 3.5(f)(ii) of the EPC Agreement.

## V.C. Summer Project Monthly Review Meeting – September 17, 2015

For Unit 3, measurements of performance improvements compared to Unit 2 have not been presented in the PRM. Develop metrics for Construction performance improvements, showing implementation of Lessons Learned from Unit 2.  Deliverable: Construction performance improvement metrics	R. Cavalieri / J. Frisco	C. Churchman	10/15/2015
In the first Quarter of 2015, Westinghouse Engineering went through an Engineering Completion effort for the standard plant design, ending on April 30 <sup>th</sup> . The Client would like to see a metric or summary of the design changes generated since April 30 <sup>th</sup> to quantify the reduction in design changes. Is it what we expected? Similar to the China design completion effort?  Deliverable: Metric/summary of the design changes post-4/30	P. Young	K. Young	10/15/2015

**The next Project Review Meeting will be held at the V.C. Summer Site in Jenkinsville, South Carolina, on Thursday, October 15, 2015.**

These minutes are provided in accordance with Section 3.5(f)(ii) of the EPC Agreement.



## Monthly Project Status Review Meeting Agenda September 17, 2015

**Location:** V.C. Summer New Nuclear Office Building (NNOB), Conference Room 201

### I. General Session / Special Topics

07:30 AM – 08:10 AM	(40 min)	Introductory Comments/Topics <ul style="list-style-type: none"> <li>- Introduction of New Team Members/Guests – Project Directors</li> <li>- Nuclear Safety Topic – Jason Brown</li> <li>- Review/Update of Overdue Action Items – Jason Brown</li> <li>- Introduction of High Level Focus Areas – Project Directors</li> </ul>
08:10 AM – 08:30 AM	(20 min)	Industrial Safety Performance – Bill Wood
08:30 AM – 08:50 AM	(20 min)	Quality Assurance Program Brief – David Jantosik / David Hunt
08:50 AM – 09:00 AM	(10 min)	Problem & Identification Resolution Program Brief – Jim Comer
09:00 AM – 09:10 AM	(10 min)	BREAK
09:10 AM – 09:20 AM	(10 min)	Special Topic: Test Program – Tim Messersmith
09:20 AM – 09:30 AM	(10 min)	Special Topic: Unit 3 Modules – Dale Garrison

### II. Construction Priorities and Milestones

09:30 AM – 09:40 AM	(10 min)	Review of Unit 2 Project Milestone Schedule – Terry Elam / Lisa Cazalet
09:40 AM – 10:00 AM	(20 min)	Priority 1: Nuclear Island Shield Building
10:00 AM – 10:20 AM	(20 min)	Priority 2: Nuclear Island Inside Containment
10:20 AM – 10:40 AM	(20 min)	Priority 3: Annex Building Construction
10:40 AM – 10:50 AM	(10 min)	BREAK
10:50 AM – 11:10 AM	(20 min)	Priority 4: Turbine Building Construction
11:10 AM – 11:30 AM	(20 min)	Licensed Operators
11:30 AM – 11:40 AM	(10 min)	Review of Unit 3 Project Milestone Schedule – Terry Elam / Lisa Cazalet
11:40 AM – 11:55 AM	(15 min)	Unit 3 Priorities and Milestones

### III. Metrics Review

11:55 AM – 12:00 PM	(5 min)	Construction – Bill Wood
12:00 PM – 12:05 PM	(5 min)	Engineering – John Robinson / Adam Scheider
12:05 PM – 12:10 PM	(5 min)	Licensing – Brian McIntyre
12:10 PM – 12:15 PM	(5 min)	Procurement – Eric Wilson
12:15 PM – 12:20 PM	(5 min)	Instrumentation & Control – Dan Harris

### IV. Conclusion

12:20 PM – 12:30 PM	(10 min)	Wrap-up – Project Directors
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**Next Project Review:** **October 15, 2015**  
V.C. Summer New Nuclear Office Building (NNOB), Conference Room 201

## V.C. SUMMER PROJECT MONTHLY STATUS MEETING

Meeting Date: September 17, 2015

Location: Jenkinsville, SC

Return to Jason Brown

Please check the box to indicate your attendance. Verify your information and make any corrections necessary. If your name does not appear, please add it at the bottom.

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## V.C. SUMMER PROJECT MONTHLY STATUS MEETING

Return to Jason Brown

Meeting Date: September 17, 2015

Location: Jenkinsville, SC

Please check the box to indicate your attendance. Verify your information and make any corrections necessary. If your name does not appear, please add it at the bottom.

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## V.C. SUMMER PROJECT MONTHLY STATUS MEETING

Meeting Date: September 17, 2015

Location: Jenkinsville, SC

Return to Jason Brown

Please check the box to indicate your attendance. Verify your information and make any corrections necessary. If your name does not appear, please add it at the bottom.

NAME	TITLE	COMPANY	PHONE	EMAIL
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## V.C. SUMMER PROJECT MONTHLY STATUS MEETING

Return to Jason Brown

Meeting Date: September 17, 2015

Location: Jenkinsville, SC

Please check the box to indicate your attendance. Verify your information and make any corrections necessary. If your name does not appear, please add it at the bottom.

NAME	TITLE	COMPANY	PHONE	EMAIL
<input checked="" type="checkbox"/> Johnson, Jim	QA Manager	CB&I	803-298-1048	jimmy.johnson@cbl.com
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## V.C. SUMMER PROJECT MONTHLY STATUS MEETING

Return to Jason Brown

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Location: Jenkinsville, SC

Please check the box to indicate your attendance. Verify your information and make any corrections necessary. If your name does not appear, please add it at the bottom.

NAME	TITLE	COMPANY	PHONE	EMAIL
<input checked="" type="checkbox"/> Rice, April	NND Licensing Manager	SCE&G	803-345-4232	<a href="mailto:arice@scana.com">arice@scana.com</a>
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## V.C. SUMMER PROJECT MONTHLY STATUS MEETING

Return to Jason Brown

Meeting Date: September 17, 2015

Location: Jenkinsville, SC

Please check the box to indicate your attendance. Verify your information and make any corrections necessary. If your name does not appear, please add it at the bottom.

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## Monthly Project Review Meeting

September 17, 2015  
Jenkinsville, SC


*Please silence all cellular phones and laptop computers.*



## Introduction of New Team Members and Guests

Carl Churchman / Bill Wood / Ron Jones

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## Nuclear Safety Topic

Jason Brown

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### Nuclear Safety Topic

Jason Brown



#### INPO Traits of a Healthy Nuclear Safety Culture

**Trait: Respectful Work Environment**

- **Trust and respect permeate the organization.** A high level of trust is established in the organization, fostered, in part, through timely and accurate communication. Differing professional opinions are encouraged, discussed, and resolved in a timely manner. Employees are informed of steps taken in response to their concerns.

**Key Attribute: Conservative Basis**

- High Level of Trust: Trust is fostered among individuals and work groups throughout the organization.


Behavior Examples:

- Leaders, sensitive to the negative impact of a lack of information, share important information in an open, honest, and timely manner such that trust is maintained..

Month End August 2015 Proprietary and Confidential

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## Review of Overdue Action Items

Jason Brown

Items Open and Late	44	Items Submitted For Closure	44	Items Open But Not Yet Due	16
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## Introduction of High Level Focus Areas

Project Directors

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## Introduction of High Level Focus Areas

Project Directors



1. **Nuclear Safety Culture (Brian McIntyre) – UPDATED (8/19/15)**  
**CAPAL 100051386, CAR 2014-2053:** On December 9, 2014 letter NND-14-0774 was issued documenting a number of performance concerns related to CB&I's nuclear safety culture and safety conscious work environment including:
  - Increasing trends in anonymous CAR's, ECP cases, NRC allegations and CB&I workers and subcontractors coming to the client with issues. Some workers provided feedback related to lack of trust in ECP and HR
  - Performance issues related to the execution of ECP investigations
  - Oversight of subcontractors, including subcontractor use of the corrective action program
  - Lack of inclusion of subcontractors in the 2014 CB&I NSC USA Alliance survey

Actions : Developed Leadership Improvement Plan (LIP), Guideline, and Communication plan consisting of forty actions and twelve metrics focusing on the following areas:

  - Respectful Work Environment
  - Environment for Raising Concerns
  - Leadership Values and Actions

Weekly NSCMP Sub-committee meetings and report out monthly to the Site Project and Site Directors


Dashboards developed to monitor metrics and status of the LIP and reported monthly at the Project Management Review

NSC Pulse Survey – 9/21/2015
2. **Schedule (Terry Elam)**  
**CAR 2014-2045, CAPAL 100051387:** The Unit 2 and 3 Integrated Project Schedule will be used to execute the Project with predictable performance in a safe and controlled manner. Predecessors and successors will be properly tied to ensure engineering and procurement activities support construction and construction sequences are correct. Project Milestones will be prominently displayed and tracked to completion. Schedule challenges will have actions identified to mitigate the challenge.

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## Introduction of High Level Focus Areas

Project Directors




3. **Engineering, Procurement and Construction Licensing Basis Compliance and Configuration Management (Patrick Young) – UPDATED (7/16/2015)**  
 More complex construction and early receipt of equipment requires verification that the drawings and technical documents issued to the construction work packages accurately reflect the current design and licensing basis requirements. Programs, processes and procedures are followed to develop, maintain, and execute so compliance with the licensing basis is completed in a quality and timely manner. The following processes will be rigorously monitored. For any changes, the GAP 147 process is implemented to determine if a licensing action (LAR or Departure) is required. If an engineering change or the need for a licensing change will affect the work, Holds are established to preclude the procurement or construction activities. When the engineering is completed and if imposed, the Holds are promptly removed when the licensing change is incorporated in the UFSAR. Site Design Engineering will review Construction Work Packages to specifically ensure all applicable E&DCRs known by Westinghouse are incorporated. Further improvements will be developed as a result of trending corrective actions. The current number of licensing actions which have resulted from design issues has impacted the construction schedule/sequence. Forward looking (mechanical, electrical etc.) activities intended to minimize/reduce impacts in the future are being considered/reviewed.
4. **Module Engineering and Manufacturing (Dale Garrison) – UPDATED (7/16/2015)**  
**CAR 2014-2046, CAPAL 100051388:** Module supplier performance in the areas of quality and schedule, along with continued design changes, continue to pose challenges to the Project schedule. Compensatory actions include the improvement plan initiated as a result of the CAR 2014-1961 RCA and the assignment of senior level staff at selected suppliers. The Consortium will continue to manage design, fabrication, assembly and placement of structural and mechanical modules to maintain IPS milestone dates and BLRA milestone dates. Status of delivery and assembly of modules is reviewed with the Owner on a weekly basis.

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## Introduction of High Level Focus Areas

Project Directors




5. **Quality and performance of vendors and suppliers (David Jantosik) – UPDATED (7/16/15)**  
 CB&I Power Procurement Source Inspection is being transferred to the control of Power Quality Assurance, the transfer will be complete by August 2015.  
  
CAR 2014-2228 (RCA), CAR 2014-1961(RCA), CAR 2014-2540 (RCA) were written to improve CB&I Power and supplier quality programs associated with modules and commodities. For modules a Module Executive Committee has been formed to periodically review supplier performance and CAR 2014-1961 actions.
6. **Delivery of VCS Issued for Construction (IFC) Design Documents from the Standard Plant Design with the Design Basis Complete – Combined with HLFA 13, "Engineering Completion" (7/16/15)**
7. **Site Storage – Removed; Based on satisfied closure of activities (7/16/15)**

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## Introduction of High Level Focus Areas

Project Directors




8. **Plant Reference Simulator (PRS) and associated ISV/HFE testing impacts on operator license training required for plant startup (Paul Mothena) – UPDATED (8/19/15)**  
CAPAL 100051412: ISV/HFE testing was completed March 12, 2015 and data is being processed for report generation. HED evaluations against the training program will be required to support a successful Commission Approved Simulator submittal and Plant Reference Simulator inspection and approval. Region II has conducted the February 2015 inspection based on simulator test and design information and onsite simulator testing results and NRO has initiated inspections of the ISV at Westinghouse. NRC NRO is preparing Safety Evaluation Report that requires input from the site simulators inspections, simulator discrepancies (from SCANA, SNC and WEC) and ISV inspections at Westinghouse. NRO has ruled that a Commission Approved Simulator is the only path forward without ISV reports and issues resolved. HED Resolution Report is integral to the ITAAC and will be incorporated into the project schedule along with any I&C changes required. The current agreed upon targets are twofold; 1) complete and implement all fixes to support CAS by December 2015 and 2) complete, resolve all issues, and implement all fixes required to close ISV ITAAC by June 2017.
9. **Commercial Issue Resolution – Removed; Commercial issues are addressed in the separate Commercial Meeting (7/16/15)**

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## Introduction of High Level Focus Areas

Project Directors



**10. Project Management Initiatives (Carl Churchman/ Ken Hollenbach) – UPDATED (6/18/15)**  
**CAR 2014-2053:** The project is fully utilizing the integrated project schedule (IPS) to perform both long term and short term planning. A well-defined process exists for schedule management and change control, which is overseen by the project directors.


The Consortium is establishing a new Project Management Organization;

- Integrated Consortium Leadership with representation from Engineering, Procurement, Construction, and Licensing
- Focused on Plan of the Day activities, as well as near-term look aheads and long-range planning
- Co-located in new operations execution center
- Decision-making to achieve alignment and support project needs and best interest

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## Introduction of High Level Focus Areas

Project Directors



**11. Cyber Security (Brad Stokes) – UPDATED (9/17/15)**  
 In 2009, the NRC issued 10 CFR 73.54 "Protection of digital computer and communication systems and networks" followed by Regulatory Guide (RG) 5.71, "Cyber Security Programs for Nuclear Facilities", dated January 2010. The AP1000 Certified design does not meet these requirements and in order for SCE&G to obtain a License it was necessary for SCE&G to implement the latest NRC and industry cyber security requirements. The rule requires licensees to provide high assurance that digital computer and communication systems and networks are adequately protected against cyber attacks. For over two years, the Project has been unable to negotiate an agreement for the Consortium to complete the work necessary to meet the current Licensing basis. Absent agreement, SCE&G is taking action to accomplish the necessary work to meet these requirements. These requirements have to be completed for the Project to load fuel and start-up the plant. SCE&G will need cooperation from the Consortium to complete the tasks necessary to support the Project's success. Request for proposals for cyber efforts have been issued to third party suppliers by SNC/SCE&G and selections will be made by October 2015. Currently SCE&G is developing a scope of work for Consortium support including a Project Manager, work to complete vendor surveys, Interface with AP1000 Vendors, CDA resolution Plan and Document development, and creation of a high level network diagram. Dan Harris and Don Durkosh are currently representing the consortium. Action is still required by the Consortium (Hyde/Churchman) to release deliverables from Phase 1 and time and material efforts.

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## Introduction of High Level Focus Areas

Project Directors



### 12. Switchyard Capacitor Failures (VC Summer No. 2) (Brian Hobbs) – UPDATED (9/17/15)

Since the failures of 2 capacitors in August 2014, CB&I has been working with its subcontractor (UC Synergetic –formerly Pike Energy), their equipment suppliers (ABB and Maxwell), and SCE&G to determine the root cause. Physical inspections of previously installed capacitors concluded through the process of cause elimination that the failures were likely initiated by high frequency transients. However, there is no evidence that in-situ conditions subjected the capacitors to transients beyond their capabilities. Additional computer analysis has revealed no surges of significance are generated during switching and ground faults. Surge endurance testing concluded that the 15nF capacitors are significantly better at withstanding repetitive surges than the 30nF capacitors. However, there is not agreement that the failure mechanism seen in this testing is the same as what is causing the failure of the VCS capacitors. Additional high voltage laboratory testing is being planned to verify the capacitor's energization endurance capabilities beginning September 21, 2015. Forty-eight (48) 15nF capacitors have been ordered for installation after Unit 1 outage (early 2016) as an interim solution, contingent upon confirmatory endurance test results.

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## Introduction of High Level Focus Areas

Project Directors



### 13. Engineering Completion (Pat Young / Brian Hobbs) – UPDATED (7/16/15)

The definition of engineering completion is having all analysis inputs complete and all open items closed required to support the final delivery of IFC documents prior to the procurement or construction need. The domestic 4/30 engineering completion effort significantly reduced design debt as necessary to minimize potential impacts to procurement and construction activities. Engineering completion activities that were planned exclusions from the 4/30 effort are currently underway. Engineering discoveries believed to require changes outside the approved engineering completion schedule will be thoroughly vetted and scrutinized utilizing the stage gate or equivalent process to establish plant impact and/or implementation necessity. The management rigor applied to completion of the remaining engineering activities is equivalent to that of the 4/30 effort ensuring appropriate focus. Either the same or equivalent tools (i.e., dashboards, work down curves, etc.) that were used in the 4/30 effort are employed for use to monitor final engineering completion activities. A weekly status review is conducted and problem areas are elevated as necessary with minimal delays. Key project personnel participation is the expectation in order to both provide leadership as well as provide status to project stakeholders.


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## Introduction of High Level Focus Areas

Project Directors



**14. Periodic Updates on NRC Inspections/Audits (David Hunt) – UPDATED (8/19/15)**  
 The NRC conducted an inspection of the Quality Assurance program at Westinghouse Headquarters in January 2015. Three nonconformances were identified (CAPAL DI 100237332, 100077746, and 100077431). Response letter sent to NRC on May 20, 2015, outlining corrective steps that have been taken, corrective steps that will be taken to avoid noncompliance, and the associated dates when corrective action will be complete. The NRC responded with a Request for Additional Information (RAI) in June 2015 and WEC answered July 16, 2015. NRC has reviewed WEC reply to the RAI and found it to be responsive to the Notice of Nonconformance in the Inspection Report.

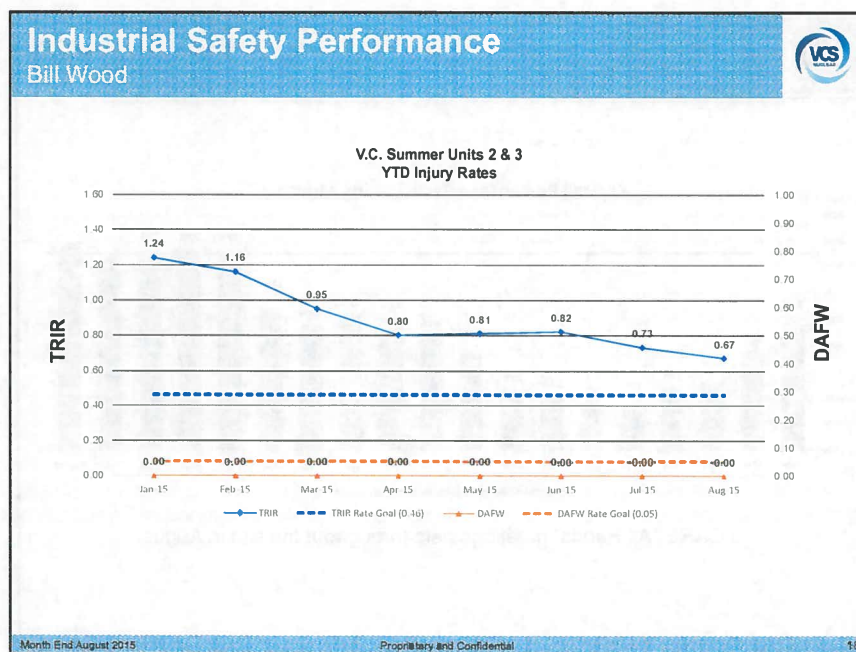
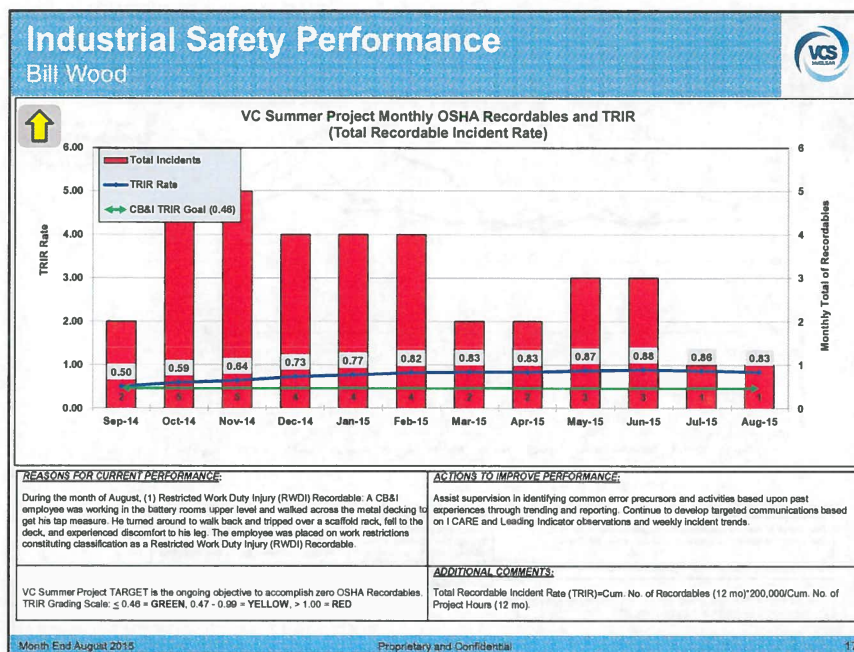
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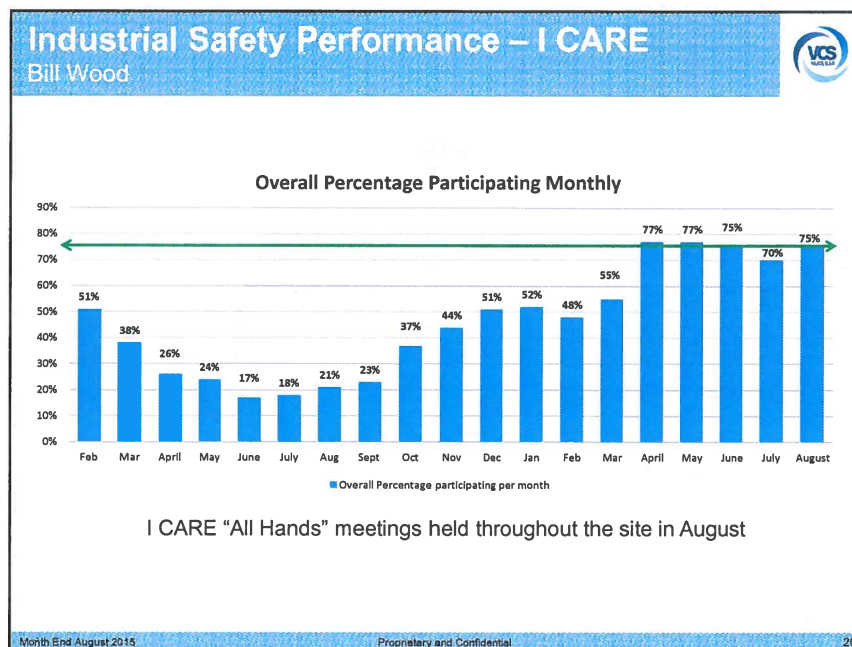
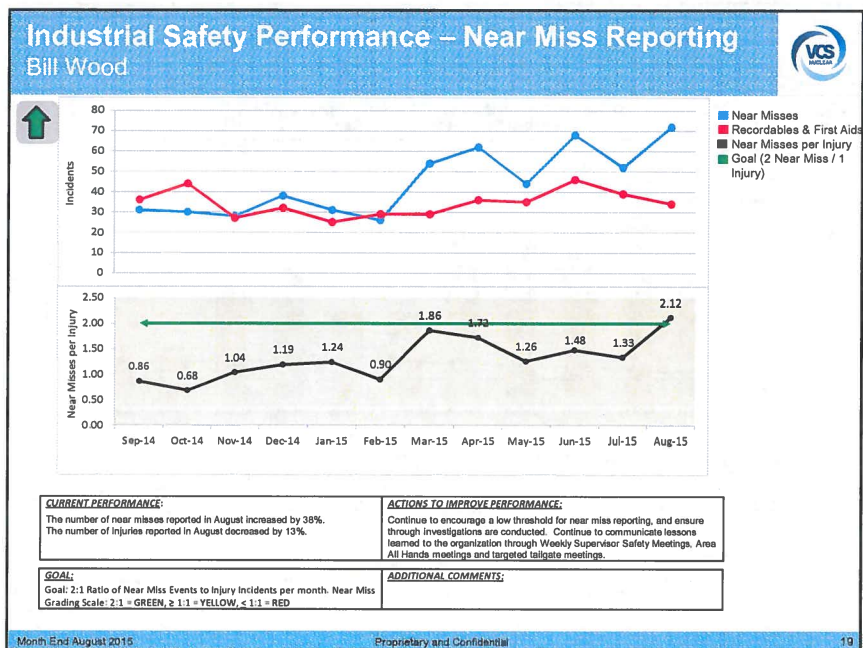


## Industrial Safety Performance

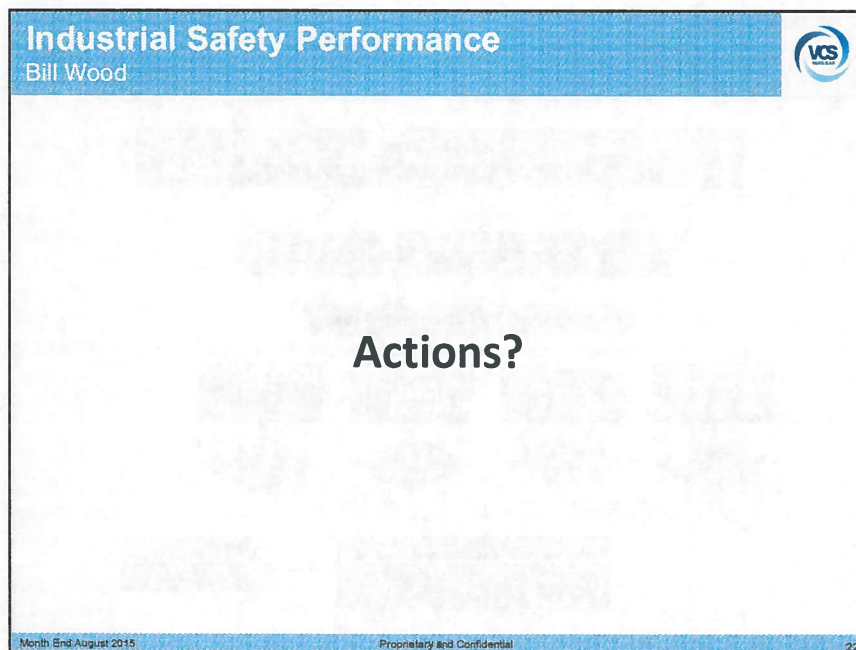
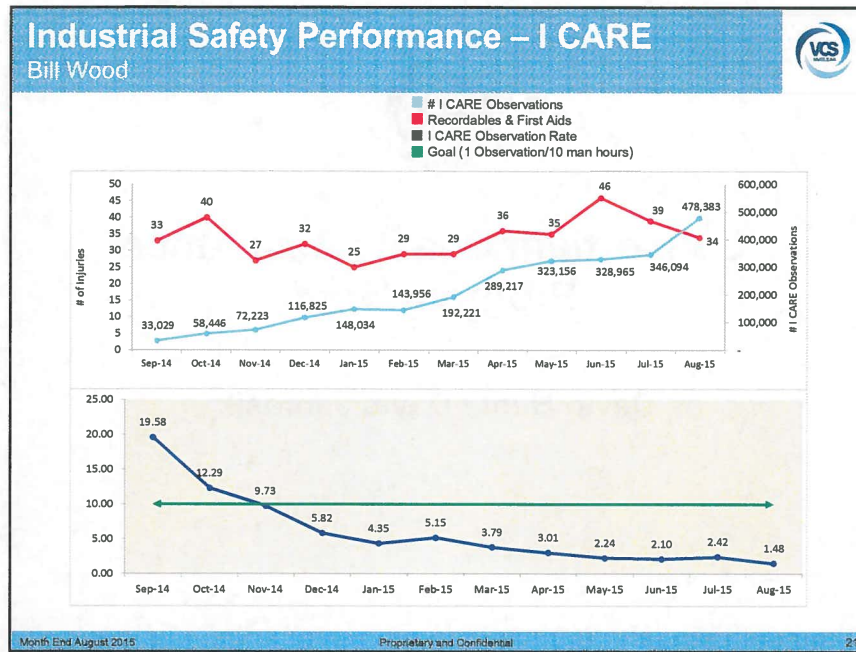
Bill Wood


16







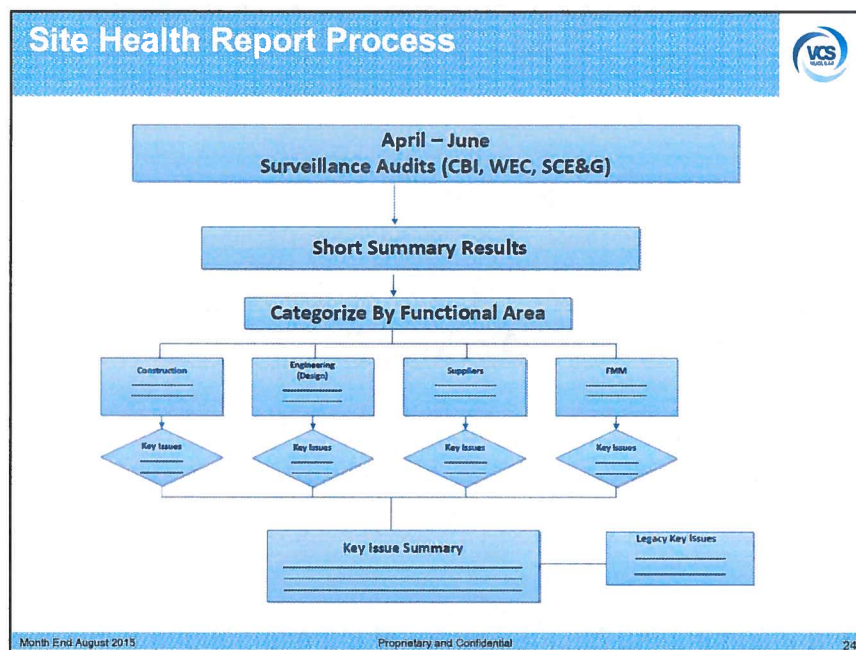




## Consortium Quality Assurance Program Brief

David Hunt / David Jantosik

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## SITE HEALTH REPORT – Key Issues

**What is a Key Issue?**

- Key Issues have been identified by Consortium Quality as the most impactful issues faced by the site, based on the results of QA Surveillances and Audits

**What are the expectations of a Key Issue?**

- Key Issues have the potential to be raised to a PRM High Level Focus Area
- The expectation is that Line Management have ownership of the issues and provide increased monitoring of plans and progress

**What is a Monitoring Issue?**

- Monitoring issues have been identified by Consortium Quality as emerging issues that deserve increased attention, but are not currently as impactful as Key Issues

Month End August 2015
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## SITE HEALTH REPORT – Key Issues

**Preventative Maintenance (Owner – Jay Sawicki)**

- A. Timeliness (backlog)
  - I. Currently evaluating equipment delivered from 7/14 to 8/15, to ensure requirements have been met. Estimated completion date 11/1/15
- B. EPCR/EPHC Quality (PM Check cards)
  - I. CAR 2015-1699 (2B, Step 9: Action Plan Implementation) – EPHC and EPCR could not be located for 4 components in the PM program
  - II. CAR 2015-1700 (2B, Step 9: Action Plan Implementation) – Field completed EPCR lack adequate detail in regard to work performed
- C. Identification of Nonconformance's & CAQs
  - I. CAR 2015-1702 (2B, Step 9: Action Plan Implementation) – PM activity results do not meet acceptance criteria and were not documented on EPCR, CAR or N&D
  - II. CAR 2015-1703 (3, Closed) – Humidity exceeded manufacturer's recommendation in storage tent, was not identified or documented

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## SITE HEALTH REPORT – Key Issues



### Product Quality

- A. Modules, Embeds, Spools (Owner – Eric Wilson, Josh Skudlarick)
  - I. Modules
  - II. Embeds
    - a) Cives CGD issues, CAR 2015-2745 (see MSOW)
    - b) N690 NDE issues, CAR 2015-3384 (2A) MSOW/N&Ds development in process
  - III. Spools
    - a) Currently in Phase 3 of Return to Work Plan
    - b) Scheduled to begin shipping 9/21/15
- B. CGD Package acceptance
  - I. Cives embeds have been placed on a "Quality Control Managerial Hold" until the applicable packages have been reviewed / approved by the CGD team
  - II. Through coordination with Construction and FE, project priorities list has been established to direct the CGD Team's reviews
  - III. Extent of Condition has been addressed, see MSOW
  - IV. To date, no hardware issues have been identified at VCS/Vogtle
  - V. CAR 2015-3434 written to document and provide tracking of associated documentation related to MSOW

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## SITE HEALTH REPORT – Key Issues



### Product Quality (Cont'd...)

- C. Preventative Maintenance (lack of program at suppliers, specifically CBI Laurens)
  - I. CAR 2015-1240 (2B, Step 9) – PM program controls for Customer Furnished Material and Purchaser furnished material
  - II. CAR 2015-1955 (2B, Step 9) – Lack of a PM program at CBI Lake Charles
  - III. CAR 2015-1954 (2B, Step 9) – Lack of a PM program at CBI Laurens

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## SITE HEALTH REPORT – Key Issues



### Corrective Action Program Implementation (Owner – Bill Wood / Jim Comer)

- A. Evaluation and Analysis
  - I. CAR 2015-0894 (3, Step 9) – CAP Leadership, Oversight and Ownership
- B. Corrective Actions
  - I. CAR 2015-1175 (2A, Step 9) – Implementation of Corrective Action Program with regards to the welding program, to resolve a recurring documentation issue, has been ineffective

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## SITE HEALTH REPORT – Monitoring Issues



### Monitoring Issues

- A. ASME Program Implementation (Owner – Jack Carr)
- B. Corrective Maintenance
  - I. Validating program (CB&I QA Surveillance in progress)
- C. Configuration Management (Adam Scheider, Mike Engel)
  - I. E&DCRs post-fab, post-delivery, incorporation into drawings
  - II. Flow down design and design changes to supplier/vendors
- D. Material Control (inside the fence) (Owner – JJ Hughes)
  - I. CAR 2015-2306 (3, Step 9) – Material ID and traceability lost for leak chase components
  - II. CAR 2015-2629 (2B, Step 9) – Material Identification and Control
- E. Material Storage (Identification and Segregation of Materials) (Owner – Eric Wilson / JJ Hughes)
  - I. CAR 2015-1947 (2B, Step 9) – Pipe spools being stored improperly
  - II. CAR 2015-2075 (2B, Step 6) – Pipe spool with non-ASME in-line valves are being stored improperly
  - III. CAR 2015-2455 (2B, Step 10) – Electrical Storage Area Deficiencies

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## Stop Work Orders & Management Suspensions of Work

### Stop Work Orders (SWO) & Management Suspension of Work (MSOW)

- A. 2 SWO concerning welded couplers
  - I. LAR 110 (15-09) Issued by NRC on Sept. 1, 2015
    - a) Closed associated SWOs (132177-300-304-002-0004 and -0005)
  - II. LAR 111 (15-08) – Submitted to the NRC on Aug. 24, 2015, with requested approval date of Oct. 21, 2015
  - III. CAR 2015-1729 (3) – Closed 5/20/14
  - IV. CAR 2015-1730 (2A) – In Step 9: Action Plan Completion ( 2 Actions, Due 10/23/15)
- B. 1 SWO concerning Material Storage / PM
  - I. CAR 2013-1744 (1) – Closed 2/11/15
- C. 1 MSOW concerning safety related embed plates
  - I. CAR 2015-2745 (2A) – Cives Commercial Grade Dedication Plans and Procedures not reviewed and approved by CB&I
  - II. MSOW written from the Extent of Condition from CAR 2015-2745 as a conservative measure to prevent installation of SSCs which have not been verified as compliant with the CGD requirements


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## Consortium Quality Assurance Program Brief

David Hunt / David Jantosik

# Actions?

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## Corrective Action Program Improvements

Jim Comer

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### V C Summer Leadership Improvement Plan

Jim Comer



**Leadership Improvement Plan Update**

**Respectful Work Environment**

- Retaliation recognition training for ECP/HR/ERB – **Completed**

**Environment For Raising Concerns**

- All actions **complete**

**Leadership Values and Actions**


- ECP outlier group assessments and develop plans to close performance gaps – **Completed**
- Develop and execute effectiveness measures for Forman General Forman Two Minute Rule training – **11/30/15**
- Execute Leadership Assessment – **12/18/15**

**Conduct Nuclear Safety Culture Pulse Survey**

- Pre-job Briefing **Completed**
- Survey provided for CB&I, WEC, and Subcontractors
- Survey **scheduled for week of 9/21/15**


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**V C Summer Leadership Improvement Plan**  
Jim Comer



**Actions?**

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**Break**

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## Test Program Status

Tim Messersmith, Consortium  
Startup & Testing Director (Acting)

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### Test Program Status

Tim Messersmith



#### Per SCE&G Management

- PRM Test Program Status Reporting will begin in October 2015
  - Future PRM reporting will include Consortium test team progress and Consortium / Owner collaboration

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## Status of Unit 3 Modules

Dale Garrison, Modules Director

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### Modules

Dale Garrison



#### CA01 – Unit #3, Toshiba & IHI

- Delivery forecast completion JUN 2016

#### CA20 – Unit #3 Vigor & Lake Charles

- Lake Charles forecast complete OCT 2015

- Vigor forecast complete JAN 2016

#### Shield Building – Unit #3, NNI

- Forecast complete NOV 2018



Shield Building  
Wall Connection  
Panel

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## Modules

Dale Garrison

**CA03 – Unit #3, CB&I – Lake Charles**

	Sub-Module	Original Bt Ship Date	Previous Plan Ship Date	Current Plan Ship Date	Forecast Ship Date
12%	CA03-01	10-Dec-15	24-Feb-16	24-Feb-16	8-Mar-16
2%	CA03-02	10-Mar-16	4-Apr-16	4-Apr-16	4-Apr-16
25%	CA03-03	25-Feb-16	16-Mar-16	16-Mar-16	16-Mar-16
1%	CA03-04	31-May-16	1-Jun-16	1-Jun-16	1-Jun-16
1%	CA03-05	16-May-16	19-May-16	19-May-16	31-May-16
1%	CA03-06	2-May-16	12-May-16	12-May-16	12-May-16
1%	CA03-07	18-Apr-16	4-May-16	4-May-16	4-May-16
1%	CA03-08	4-Apr-16	20-Apr-16	20-Apr-16	20-Apr-16
1%	CA03-09	25-Mar-16	14-Apr-16	14-Apr-16	14-Apr-16
1%	CA03-10	11-Apr-16	25-Apr-16	25-Apr-16	25-Apr-16
1%	CA03-11	25-Apr-16	5-May-16	5-May-16	16-May-16
1%	CA03-12	9-May-16	16-May-16	16-May-16	16-May-16
1%	CA03-13	23-May-16	25-May-16	25-May-16	25-May-16
1%	CA03-14	6-Jun-16	2-Jun-16	2-Jun-16	2-Jun-16
12%	CA03-15	3-Mar-16	29-Mar-16	29-Mar-16	29-Mar-16
1%	CA03-16	17-Mar-16	12-Apr-16	12-Apr-16	12-Apr-16
1%	CA03-17	18-Dec-15	25-Feb-16	25-Feb-16	9-Mar-16



Above: CA03 WT at Lake Charles

Table Key

Pre-Detailing	Fab WIP
Detailing WIP	Pre-Ship WIP
Traveler WIP	Shipped
Pre-Fab WIP	Co/C Complete


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## Modules

Dale Garrison



CA20-05 Fabrication at Vigor

### Challenges to Module Execution

- E&DCR Delivery to Suppliers
- Response Time Design Issues
- Book Reviews
- Enhanced Inspections
- No defined actions – commercial issue
- Design team working to achieve turnaround times
- Complete plan to all suppliers on 18-Sep-2015
- Guidelines and Staffing

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## Modules

Dale Garrison



### E&DCR Delivery to Suppliers:

- **Modules on hold by supplier:**
  - **Greenberry:**
    - 12 Modules on Hold (CA35, CA31 & CA52)
    - 20 modules on some partial hold (CA37, CA41, CA44, CA45 & CA51)
      - Partial holds are on components, submodules, penetrations, etc (see attached for details).
  - **Vigor (formerly OIW):**
    - 2 Modules on hold CA20\_05 & CA20\_10
    - 170 Book 2 components
  - **Lake Charles:**
    - 90 – Lake Charles – Mechanical Modules (70% of scope)
    - 64 – Lake Charles – CB Modules (65% of scope)
    - 8 – Lake Charles – CA20 Wall Modules (66% of scope) – plan to ship without EDCR's incorporated
    - 5 – Lake Charles – CA02, 05 (25% of scope)
    - 6 – Lake Charles – CA20 Floor Modules

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## Modules

Dale Garrison



### E&DCR Delivery to Suppliers: (cont.)


- **Vendors with no Modules Currently on Hold:**
  - **TANE:** 36 Modules incorporated EDCRs without CB&I approval. Shipping TBD. (electing to incorporate some critical EDCR's at their own risk, building to old design otherwise)
  - **SMCI:** Book 2 is being built to old design, otherwise it would be on hold
  - **Dubose:** Next 3 modules will be on hold within 8 weeks.
  - **NNI:** Not impacted by commercial issues.

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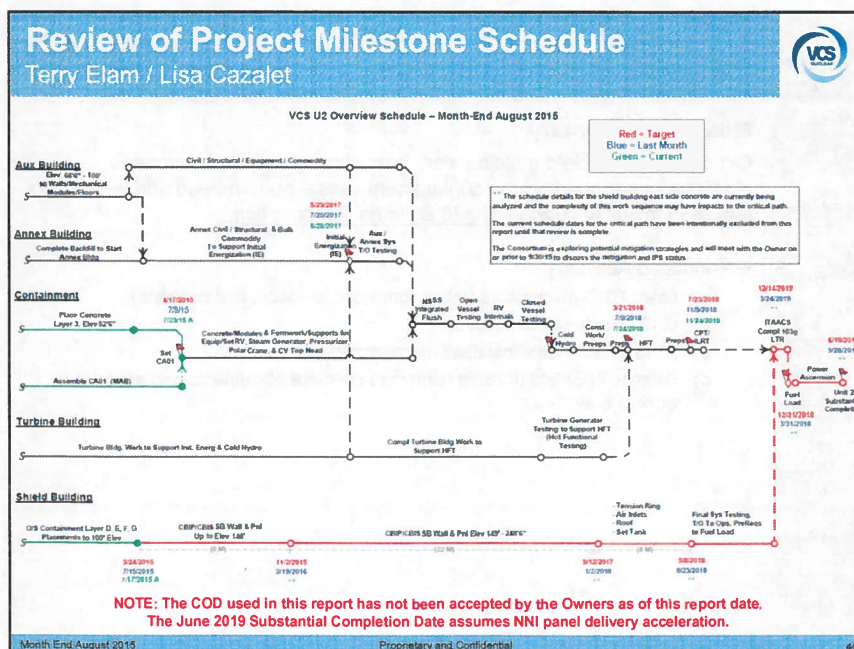


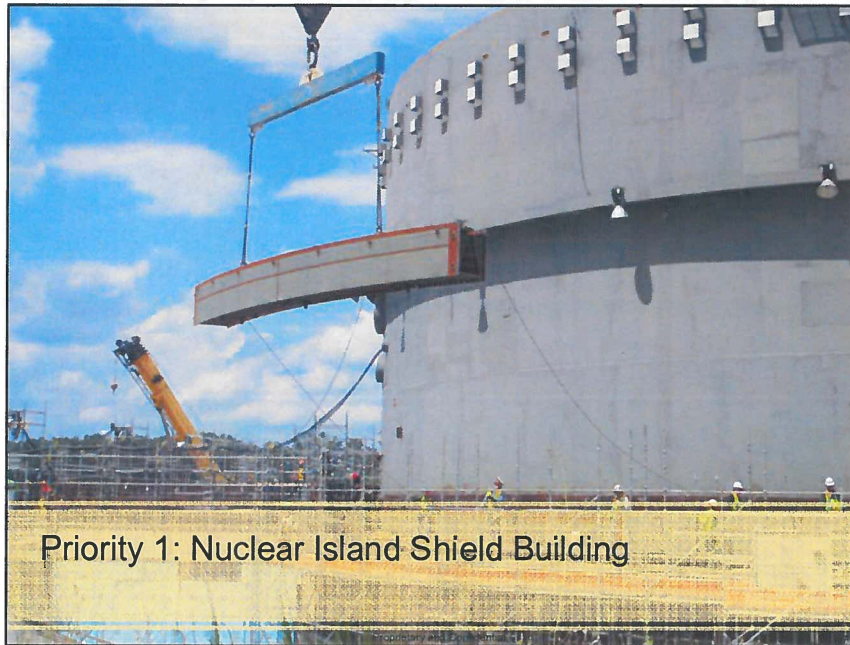


## Construction Priorities and Milestones

### Unit 2

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Unit 2 Nuclear Island Shield Building	
Milestone Summary	<b>Milestone Summary</b> Critical Path for shield building work goes through several concrete placements surrounding the containment vessel bottom head and increasing elevation levels to support <u>Shield Building Construction</u> .
Schedule	
Construction	<ul style="list-style-type: none"> <li>• Prioritized Activities:               <ul style="list-style-type: none"> <li>a) Layer F1/G placements (rebar, formwork, embeds, and concrete)</li> <li>b) CA20 North wall completion</li> <li>c) CBIS Shield Panel installation with associated work</li> <li>d) Balance of Shield Building reinforced concrete placements and associated work to Elev. 149'</li> </ul> </li> </ul>
Engineering	
Licensing	
Procurement	
Look Ahead	
Actions	
Month End August 2015 <span style="float: right;">Proprietary and Confidential 48</span>	

# Unit 2 Nuclear Island Shield Building

Milestone  
Summary

## Schedule

Schedule

**Note:**  
Current IPS Dates from 9/14/15

Construction

Engineering

Licensing

Procurement

Look Ahead

Actions

Near-Term Milestones	August PRM Date	Current IPS Date	
Place Concrete - Outside Wall Q-line to 7.3 line - Layer F1 - EL 90'6" to 98' East	8/22/2015	8/27/2015	A
Place Concrete - Install Floor 7.3-line to Az 142 - Layer F1 - EL 90'6" to 92'6"	9/1/2015	9/25/2015	
Place Concrete - Layer F2 - EL 96'6" to 103'0" West	9/22/2015	9/27/2015	
Erect course 02 panels and panel assemblies	10/6/2015	10/10/2015	
Place Concrete - Outside Wall 7.3-line to Az 142 - Layer F1 - EL 92'6" to 98'	10/7/2015	11/24/2015	
Place Concrete - Inside Wall Q-line to Az 142 - Layer F1 - EL 90'6" to 98'	10/25/2015	12/31/2015	
Weld 01/02 Girth Seam - (1/4" fabrication mismatch) (Course 02)	11/6/2015	11/11/2015	
Place Concrete at Shield Panels at Column Line N-Q - EL 103' to 113' Course 02	11/18/2015	11/23/2015	

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# Unit 2 Nuclear Island Shield Building

The logo for VCS Energy, featuring the letters "VCS" in a bold, sans-serif font above the word "Energy" in a smaller font, all enclosed within a circular emblem.

## Milestone Summary

## Construction – Shield Building

## Schedule

## Accomplishments:

## Construction

- **Layer F1 – Q to 7.3 Outside** – Concrete placed 8/27 72 cu yds

## Engineering

- **Course One (1) West Side**
  - Completed Vertical Seam Weld NDE

## Licensing

- **Courses 2 thru 5**
  - On fabrication pad, completed panel fit up with vertical welding & NDE for all 2 panel assemblies

## Procurement

## Look Ahead

## Actions

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Unit 2 Nuclear Island Shield Building	
Milestone Summary	<b>Construction – Shield Building</b>
Schedule	<ul style="list-style-type: none"> <li>• <b>Layer F2 EL 96'6 to 103'0 West</b> <ul style="list-style-type: none"> <li>• Rebar/Formwork Installation Layer F2 96'6 to 103'0</li> <li>• Concrete Placement IP</li> </ul> </li> </ul>
Construction	<ul style="list-style-type: none"> <li>• <b>Layer F1 Install Floor 7.3 to Az 142</b> <ul style="list-style-type: none"> <li>• Install Embeds, Form Savers, Formwork and CV Seal Block Outs</li> <li>• Rebar welding</li> </ul> </li> </ul>
Engineering	<ul style="list-style-type: none"> <li>• <b>Layer F1 Outside Wall 7.3 to Az 142</b></li> </ul>
Licensing	
Procurement	
Look Ahead	
Actions	
Month End August 2015	

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Unit 2 Nuclear Island Shield Building	
Milestone Summary	<b>Construction – Shield Building West Side</b>
Schedule	<ul style="list-style-type: none"> <li>• <b>Layer F1 Inside Wall Q to Az 142</b> <ul style="list-style-type: none"> <li>• Placement is continuous from Az. 345 (Q Line) to Az. 142</li> <li>• Formwork installation dependent on F1 Outside Wall Placed</li> </ul> </li> </ul>
Construction	<ul style="list-style-type: none"> <li>• Pursuing plan to divide into 3 placements           <ol style="list-style-type: none"> <li>1. Az. 345 (Q) to 7.3               <ul style="list-style-type: none"> <li>• Requesting new CJ for F1 Inside Az. 345 (Q) to 7.3</li> <li>• Allows F1 inside wall to be placed and earlier start on G placement Az. 345 (Q) to 7.3</li> <li>• 1 month estimated schedule improvement</li> </ul> </li> <li>2. 7.3 to Az. 142</li> <li>3. Wedge –               <ul style="list-style-type: none"> <li>• Driven by CA20 North Wall work</li> <li>• Requesting CJ extended to El. 100' to allow separate wedge placement</li> </ul> </li> </ol> </li> </ul>
Engineering	
Licensing	
Procurement	
Look Ahead	
Actions	<ul style="list-style-type: none"> <li>• <b>Layer G Install Floor Q-line to N-line</b></li> </ul>
Month End August 2015	

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## Unit 2 Nuclear Island Shield Building



Milestone Summary	<b>Construction – CA20 Focus Areas:</b>
Schedule	<ol style="list-style-type: none"> <li>Support Wedge and Layer G           <ul style="list-style-type: none"> <li>North Wall Straightening work</li> <li>North Wall Repairs (EDCR/N&amp;Ds)</li> </ul> </li> </ol>
Construction	<ol style="list-style-type: none"> <li>Completion of work to Support N Wall</li> </ol>
Engineering	<ol style="list-style-type: none"> <li>Completion of work to Support 1 Line Backfill           <ul style="list-style-type: none"> <li>Coatings – walls, floors</li> <li>Set Effluent Hold-up Tanks</li> <li>E&amp;DCR for Horizontal Joint @ El. 89'</li> <li>CA20 Concrete</li> </ul> </li> </ol>
Licensing	<ul style="list-style-type: none"> <li>R104</li> </ul>
Procurement	<ul style="list-style-type: none"> <li>Precast</li> <li>Backfill</li> </ul>
Look Ahead	<ol style="list-style-type: none"> <li>South Wall</li> </ol>
Actions	<ul style="list-style-type: none"> <li>Repair</li> </ul>

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## Unit 2 Nuclear Island Shield Building



Milestone Summary	<b>Engineering (Cont'd)</b>
Schedule	<ul style="list-style-type: none"> <li>Auxiliary Building structural module CR10: A2-MCR10-X (layers F1, F2, and G)           <ul style="list-style-type: none"> <li>No engineering holds or impact to construction with respect to panel fit-up and installation up to 100'</li> </ul> </li> </ul>
Construction	<ul style="list-style-type: none"> <li>Auxiliary Building fourth level civil / structural: A4-CS-X:           <ul style="list-style-type: none"> <li>621 documents in package</li> <li>No engineering holds or impact to construction with respect to panel fit-up and installation between 100' and 117'-6"</li> </ul> </li> </ul>
Engineering	
Licensing	
Procurement	
Look Ahead	
Actions	

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## Unit 2 Nuclear Island Shield Building

Milestone Summary
Schedule
Construction
Engineering
Licensing
Procurement
Look Ahead
Actions

### Engineering (Cont'd)

- Shield Building second level civil / structural: S2-CS-X: Concrete and Steel Panels from 100' to 163'
  - 275 documents in package
  - Eight technical E&DCRs issued
    - Significant E&DCRs were:
      - APP-1220-GEF-428: Adds an embedment plate for a raceway support, due to a tolerance issue.
      - APP-1222-GEF-097: Adds reinforcement around HVAC penetrations due to incomplete details.
      - VS2-1223-GEF-000006: Splits concrete panel into 2 pieces to allow installation around protrusions from the Shield Building wall.
  - Seven N&Ds were closed in August
    - Three initiated in July; Four in August
    - Significant N&Ds were:
      - VS2-CR01-GNR-000360: Multiple nonconforming issues on the top mat of rebar for the 82'-6" slab over the CA22 module: Repair disposition.
      - VS2-CR01-GNR-000335: Repair rebar protruding from Q-Wall that violates minimum clear cover requirements: Repair disposition.
  - No engineering holds

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## Unit 2 Nuclear Island Shield Building


Milestone Summary
Schedule
Construction
Engineering
Licensing
Procurement
Look Ahead
Actions

### Licensing

- LAR-111 – Address out-of-plane shear for C3J coupler welds
  - Impacts Set Panel 3L – 11/5/2015
  - NRC technical exchange meeting – 8/13/2015
  - Submitted to NRC – 8/21/2015
  - NRC technical audit – 8/26/2015
    - 5 RAIs
    - LAR will be supplemented to include additional information
    - Draft response to Owners – 9/18/2015

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## Unit 2 Nuclear Island Shield Building



Milestone Summary	<b>Procurement</b>
Schedule	<ul style="list-style-type: none"> <li>Shield Panel Deliveries               <ul style="list-style-type: none"> <li>Washers for Upset bars to support F2 Placement – 500 washers of each size arrived on site 12-Sep. Balance of 900 per size to delivery 16-Sep</li> </ul> </li> </ul>
Construction	<ul style="list-style-type: none"> <li>02M – 19-Oct (Construction Need 14-Sep)</li> <li>04M – 16-Oct (Construction Need 14-Sep)</li> <li>03L – 09-Oct (Construction Need 14-Sep)</li> </ul>
Engineering	
Licensing	
Procurement	
Look Ahead	
Actions	

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## Unit 2 Nuclear Island Shield Building



Milestone Summary	<b>Construction</b>
Schedule	<ul style="list-style-type: none"> <li>CBIS integration               <ul style="list-style-type: none"> <li>Aids - Engineering/Construction</li> <li>MS/FW Weldment &amp; MS Penetration</li> <li>Equipment Hatch &amp; Manway Plan &amp; Installation</li> <li>Vacuum Box Testing on Ring 1</li> </ul> </li> </ul>
Construction	<ul style="list-style-type: none"> <li>Electrical Penetration (EPA's) Assembly Work</li> <li>Shield Panel Deliveries</li> </ul>
Engineering	
Licensing	
Procurement	
Look Ahead	
Actions	

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## Unit 2 Nuclear Island Shield Building

**Milestone Summary**

**Schedule**

**Construction**

**Engineering**

**Licensing**

**Procurement**

**Look Ahead**

**Actions**

### Engineering

- Ongoing assessment of impacts from Design Change Proposal (DCP) APP-GW-GEE-5012, Rev. 0, "Relocation of PCS Piping and Raceway to Upper Annulus"
  - Relocated raceways and PCS piping to the inner wall of the Shield Building
    - Recirculation suction line
    - Spent fuel pool line from the PCCWST
    - Distribution bucket line
    - Three conduit banks that provide power and control cabling to the the upper areas of the Shield Building
- PCS Piping Isometrics Embedded in Shield Build Reinforced Concrete Cylindrical Wall below Elevation 146'-10" have been archived and issued to support piping procurement
- Design documents for the electrical penetrations and embedments required to be cast-in-place with the RC Shield Building wall are scheduled to be delivered on 9/30.
- Adding a 3<sup>rd</sup> personnel basket to support piping inspection
- One engineering hold on three documents
  - APP-PCS-GEF-112
  - Placed PCS piping on hold pending DCP incorporation
  - Supports construction schedule

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## Unit 2 Nuclear Island Shield Building

**Milestone Summary**

**Schedule**

**Construction**

**Engineering**

**Licensing**

**Procurement**

**Look Ahead**

**Actions**

The inside of the Shield Building wall is extremely congested with reinforcement for the US design


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Unit 2 Nuclear Island Shield Building	
Milestone Summary	<b>Licensing</b> <ul style="list-style-type: none"> <li><b>NL-0973</b> - Modified Weld Joint for SC Shield Building Panels               <ul style="list-style-type: none"> <li>"Weld Int/Ext Shield Wall Panels at Column Line N-Q- EI 103'6"-113'6" Course 2" – 9/18/2015</li> <li>Incorporated into UFSAR</li> </ul> </li> <li><b>LAR-105</b> - Alternative Tie Reinforcement for SC Shield Building Panels               <ul style="list-style-type: none"> <li>DCP-4950 Archived 12/17/2014</li> <li>Expected NRC submittal date - TBD</li> </ul> </li> </ul>
Schedule	
Construction	
Engineering	<b>Procurement</b> Delivery of remaining shield panels
Licensing	Delivery of EPAs from Cives
Procurement	
Look Ahead	
Actions	
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Unit 2 Nuclear Island Shield Building	
Milestone Summary	
Schedule	
Construction	
Engineering	
Licensing	
Procurement	
Look Ahead	
Actions	<h2 style="text-align: center;">Actions?</h2>
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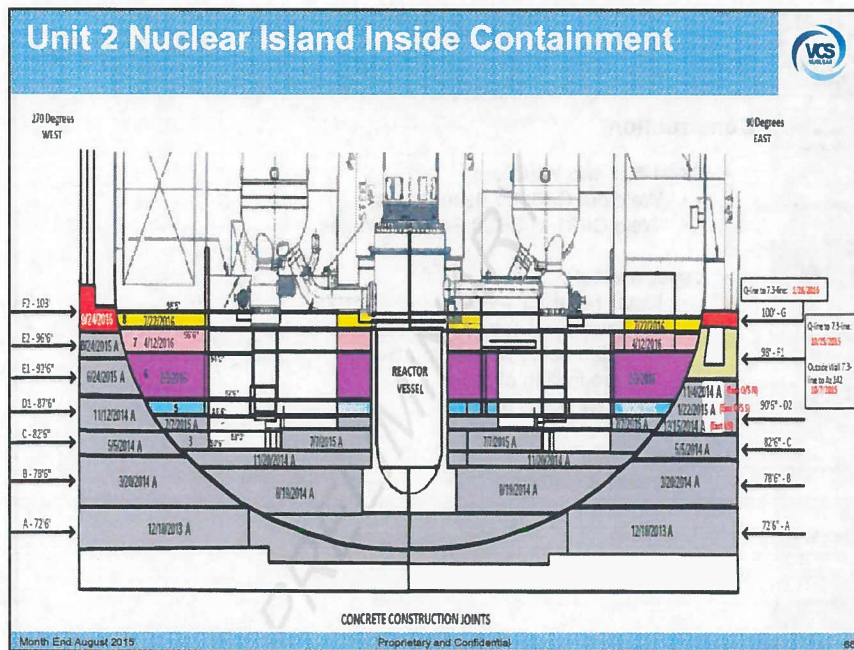
Unit 2 Nuclear Island Inside Containment		
Milestone Summary	<b>Milestone Summary</b> Concrete/Modules & Formwork/Supports for Equipment set – Reactor Vessel, Steam Generators, Pressurizer, Polar Crane, and CV Top Head to support <u>Hot Functional Testing</u>	
Schedule		
Construction	<ul style="list-style-type: none"> <li>• Prioritized Activities:               <ul style="list-style-type: none"> <li>a) Layer 5 placement (rebar, formwork, embeds, OLPs, CB Panels, and concrete)</li> <li>b) CA01 alignment/weld out</li> <li>c) CA01 deferred work below 107'</li> <li>d) CA01 work inside both SG cubicles to support component installation</li> <li>e) Load and install components inside CB65 (KQ10, KQ11, HVAC Duct Door and Shield Door)</li> <li>f) Installation of SPL-05</li> </ul> </li> </ul>	
Engineering		
Licensing		
Procurement		
Look Ahead		
Actions		
Month End August 2015 <span style="float: right;">Proprietary and Confidential</span>		64

Unit 2 Nuclear Island Inside Containment			
Milestone Summary	Schedule		
Schedule			
Construction			
Engineering			
Licensing			
Procurement			
Look Ahead			
Actions			

**Note:**  
Current IPS Dates from 9/14/15

Near-Term Milestones	August PRM Date	Current IPS Date
Weld Module CA01 to Embed Plates - EL 83'0"	8/18/2015	9/16/2015
Align & Weld CA01 Structural Module to CA05 Structural Module	9/24/2015	9/28/2015
Install KQ10 (Reactor Coolant Drain Tank Equipment Module) - EL 71'6"	10/7/2015	11/4/2015
Install KQ11 (WLS-MP-02A/02B) Sump - EL 71'6"	10/9/2015	11/6/2015
Place Concrete Inside Containment- EL 84'6" to 87'6" (Layer 5) West Side	9/27/2015	9/30/2015
Place Concrete Inside Containment- EL 84'6" to 87'6" (Layer 5) East Side	9/27/2015	11/20/2015

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Unit 2 Nuclear Island Inside Containment	
Milestone Summary	<b>Construction – Inside Containment</b>
Schedule	<b>Accomplishments:</b>
Construction	<ul style="list-style-type: none"> <li>• Lift and Set into Containment, Modules:               <ul style="list-style-type: none"> <li>• CB11</li> <li>• CB12</li> <li>• CB21</li> <li>• CB24</li> <li>• CB25</li> </ul> </li> </ul>
Engineering	
Licensing	
Procurement	
Look Ahead	
Actions	
Month End August 2015 <span style="float: right;">Proprietary and Confidential 87</span>	

Unit 2 Nuclear Island Inside Containment	
Milestone Summary	<b>Construction</b>
Schedule	<ul style="list-style-type: none"> <li>• <b>CA01 Set and Weld out</b> <ul style="list-style-type: none"> <li>• Weld out CA01 to Base Plates</li> <li>• Weld CA01 to CB50 Series Modules</li> </ul> </li> </ul>
Construction	<ul style="list-style-type: none"> <li>• <b>Layer 5 West</b> <ul style="list-style-type: none"> <li>• Install rebar 83' – 86'</li> <li>• 21 Dowels in Layer 3 not installed, needed for Layer 5 W               <ul style="list-style-type: none"> <li>• Plan being worked to utilize hydroblasting to ensure protection of rebar</li> </ul> </li> <li>• Readiness Review</li> </ul> </li> <li>• <b>Layer 5 East</b> <ul style="list-style-type: none"> <li>• Install B plates</li> </ul> </li> </ul>
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### Engineering

- Containment fourth level civil / structural:
  - C4-CS-X: Concrete and platforms from 83' to 107'-2" (Layer 5 is 83' to 87'-6")
    - 360 documents in package
    - Seven technical E&DCRs issued
      - The significant E&DCRs were:
        - APP-WLS-GEF-332: modifies leak chase piping on CA02 due to module configuration
        - APP-1110-GEF-105: adds vertical construction joint through Layer 5 to speed construction
    - No N&D opened and closed in August
    - No engineering holds

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### Engineering (Con't)


- CA02 Module Design and Assembly
  - Lands at 94'-0" (in blockout in Layer 6)
  - 110 documents
  - Two technical E&DCRs issued
    - The significant issue was:
      - APP-CA02-GEF-087: adds or revises coordinates for 8 overlay plates to avoid internal interferences
  - Four N&D closed in August
    - One initiated in July, and Three in August
    - No impact to construction
  - No engineering holds
- CA03 Module Design and Assembly
  - Lands at 96'-0" (above Layer 6)
  - 190 documents
  - Six technical E&DCR issued
    - No impact to construction
  - One N&D was initiated and closed in August
    - No impact to construction
  - No engineering holds

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Milestone Summary	<b>Licensing</b> <ul style="list-style-type: none"> <li>• <b>LAR-111</b> – Address out-of-plane shear for C3J coupler welds               <ul style="list-style-type: none"> <li>• Impacts Set CA02 (2/4/2016) and CA03 (4/28/2016)</li> <li>• NRC technical exchange meeting – 8/13/2015</li> <li>• Submittal to NRC – 8/21/2015</li> <li>• NRC technical audit – 8/26/2015                   <ul style="list-style-type: none"> <li>• 5 RAIs</li> </ul> </li> <li>• LAR will be supplemented to include additional information</li> <li>• Draft response to Owners – 9/18/2015</li> </ul> </li> </ul>
Schedule	
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Milestone Summary	<b>Procurement</b>
Schedule	Layer 5 <ul style="list-style-type: none"> <li>• Embeds - 90% delivered. All embeds for Layer 5 West Onsite. Anchor Bolts and 2 Plates left to ship. Delivery 18-Sep</li> <li>• CB Overlay Plates - CB21 – 3 plates left to ship 19-Sep, CB24 – 3 plates left to ship 19-Sep, CB25 – 1 plate left to ship 11-Sep</li> </ul>
Construction	CA01 <ul style="list-style-type: none"> <li>• Overlay plates 18 of 308 Left to Ship 1-Oct</li> <li>• Building Caps 10 of 19 Left To Ship 2-Oct</li> </ul>
Engineering	Layer 6 <ul style="list-style-type: none"> <li>• CB Modules: CB33 8-Jan (Need 18-Oct), CB41 2-Oct (Need 18-Oct), CB43 8-Jan (Need 20-Oct), CB32 21-Dec (Need 20-Oct), CB42 25-Sep (Need 19-Oct)</li> <li>• CB42 Overlay Plates – 2 left to ship 24-Sep</li> </ul>
Licensing	
Procurement	<ul style="list-style-type: none"> <li>• Rebar – Detailing Complete – Several loads onsite. Vendor to fabricate and deliver based upon need date (Need date 14-Nov)</li> </ul>
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## Unit 2 Nuclear Island Inside Containment

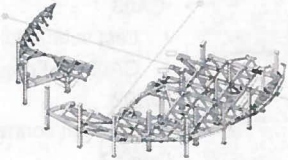


Milestone Summary	<b>Construction</b> <ul style="list-style-type: none"> <li>Layer 6               <ul style="list-style-type: none"> <li>Start piping installation</li> <li>Start rebar work</li> </ul> </li> <li>CA01 Deferred work below 107'</li> <li>CA01 Work inside both SG cubicles to support component installation</li> <li>Load and install components inside CB65 (KQ10, 11, HVAC Duct Door and Shield Door)</li> <li>Installation of SPL-05</li> </ul>
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Milestone Summary	<b>Engineering (cont'd)</b> <ul style="list-style-type: none"> <li>SPL18 Grating Floor Areas 2,3,4 at 118'-6"               <ul style="list-style-type: none"> <li>One engineering hold on 16 documents                   <ul style="list-style-type: none"> <li>APP-1140-GEF-115                       <ul style="list-style-type: none"> <li>Resolution of module beam seat issues to be complete by 10/30/15</li> </ul> </li> </ul> </li> </ul> </li> <li>SPL51 Operating Floor Areas 2,3,4 at 135'-3"               <ul style="list-style-type: none"> <li>One engineering hold on 15 documents                   <ul style="list-style-type: none"> <li>APP-1140-GEF-115                       <ul style="list-style-type: none"> <li>After review, SPL51 was not impacted by this issue, hold removal in progress.</li> </ul> </li> </ul> </li> </ul> </li> <li>Meeting conducted on 9/9/15 with CB&amp;I, PVS, SDI and WEC to review comments for 2nd set of procurement documents</li> <li>Discussion continues between WEC, CB&amp;I and PVS/SDI to sort through fabricator's "wants" vs. "needs"</li> </ul>	<p>SPL18</p> 
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SPL51



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Milestone Summary	<b>Licensing</b>
Schedule	<ul style="list-style-type: none"> <li>• <b>LAR-49</b> - Module Clip Angle –             <ul style="list-style-type: none"> <li>• PAR - "Install CA36" – 7/15/2016</li> <li>• LAR – "mass concrete at 107' 2'" – 10/31/2016</li> <li>• Submittal – 10/2015</li> </ul> </li> </ul>
Construction	<ul style="list-style-type: none"> <li>• <b>LAR-7</b> - Ventilation Systems Design Changes – Impacts "Install Recirculation Fans &amp; Coils" – 8/12/2016</li> </ul>
Engineering	<ul style="list-style-type: none"> <li>• Submittal – 10/1/2015</li> </ul>
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## Unit 2 Nuclear Island Inside Containment



Milestone Summary	<b>Procurement</b>
Schedule	<ul style="list-style-type: none"> <li>• CA03             <ul style="list-style-type: none"> <li>• Last submodule kit eta 21-Oct</li> <li>• CA03-10 Forecast Delivery 18-Sep</li> </ul> </li> </ul>
Construction	<ul style="list-style-type: none"> <li>• CA02             <ul style="list-style-type: none"> <li>• Basemat connections – Last shipment eta 14-Oct</li> </ul> </li> </ul>
Engineering	<ul style="list-style-type: none"> <li>• Layer 7             <ul style="list-style-type: none"> <li>• CB Modules: CB27 eta 14-Dec (Need date 19-Sep), CB37 eta 11-Jan (Need date 18-Jan), CB38 eta 15-Jan (Need date 18-Jan), CB39 eta 15-Jan (Need date 18-Jan)</li> </ul> </li> </ul>
Licensing	<ul style="list-style-type: none"> <li>• CB65 Components             <ul style="list-style-type: none"> <li>• KQ10 – 16-Oct (Need 15-Sep), CB65 Doors 6-Nov (Need 16-Sep)</li> </ul> </li> </ul>
Procurement	<ul style="list-style-type: none"> <li>• SPL05 – arrived onsite 8-Sep</li> </ul>
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Priority 3: Nuclear Island Annex Building

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